

# SRO 22/50

kV dependent max mA values for exposure times  $\leq 100\text{ms}$  in combination with Optimus 65kW

kV	SF [ $\mu\text{A}$ ]	LF [ $\mu\text{A}$ ]	kV	SF [ $\mu\text{A}$ ]	LF [ $\mu\text{A}$ ]	kV	SF [ $\mu\text{A}$ ]	LF [ $\mu\text{A}$ ]	kV	SF [ $\mu\text{A}$ ]	LF [ $\mu\text{A}$ ]
40	242000	727000	70	285714	714285	100	200000	500000	130	153846	384615
41	246200	742600	71	281690	704225	101	198019	495049	131	152671	381679
42	250400	758200	72	277777	694444	102	196078	490196	132	151515	378787
43	254600	773800	73	273972	684931	103	194174	485436	133	150375	375939
44	258800	789400	74	270270	675675	104	192307	480769	134	149253	373134
45	263000	805000	75	266666	666666	105	190476	476190	135	148148	370370
46	266400	819000	76	263157	657894	106	188679	471698	136	147058	367647
47	269800	833000	77	259740	649350	107	186915	467289	137	145985	364963
48	273200	847000	78	256410	641025	108	185185	462962	138	144927	362318
49	276600	861000	79	253164	632911	109	183486	458715	139	143884	359712
50	280000	875000	80	250000	625000	110	181818	454545	140	142857	357142
51	282800	887731	81	246913	617283	111	180180	450450	141	141843	354609
52	285600	900000	82	243902	609756	112	178571	446428	142	140845	352112
53	288400	900000	83	240963	602409	113	176991	442477	143	139860	349650
54	291200	900000	84	238095	595238	114	175438	438596	144	138888	347222
55	294000	900000	85	235294	588235	115	173913	434782	145	137931	344827
56	298082	892857	86	232558	581395	116	172413	431034	146	136986	342465
57	302164	877192	87	229885	574712	117	170940	427350	147	136054	340136
58	306246	862068	88	227272	568181	118	169491	423728	148	135135	337837
59	310328	847457	89	224719	561797	119	168067	420168	149	134228	335570
60	314410	833333	90	222222	555555	120	166666	416666	150	133333	333333
61	318492	819672	91	219780	549450	121	165289	413223			
	322580	806451	92	217391	543478	122	163934	409836			
	317460	793650	93	215053	537634	123	162601	406504			
	312500	781250	94	212765	531914	124	161290	403225			
	307692	769230	95	210526	526315	125	160000	400000			
	303030	757575	96	208333	520833	126	158730	396825			
	298507	746268	97	206185	515463	127	157480	393700			
	294117	735294	98	204081	510204	128	156250	390625			
	289855	724637	99	202020	505050	129	155038	387596			

These are the default values of the tube data file TUBE\_R2.TDL or TUBE\_R3.TDL.

Typically there are no changes after adaptation except there are reductions due to the max generator power (Optimus 50kW = 650mA max) or if the filament does not have its full emission anymore (e.g. from shorted filament loops).

The red marked emission current values (at 62kV SF and 52kV LF) are the max emission currents at a kV value from which on the filament current can be reduced to achieve its max load performance.